Claims

1. An alkali-free aluminoborosilicate glass comprising by weight % based on oxide,

SiO_2			
B_2O_3			
Al_2O_3			
MgO			
CaO			
SrO			
BaO			
with	SrO	+	BaO
ZnO			

2. An alkali-free aluminoborosilicate glass comprising by weight % based on oxide,

SiO_2			
B_2O_3			
Al_2O_3			
MgO			
CaO			
SrO			
BaO			
with	SrO	+	BaO
ZnO			

- 3. An aluminobor silicate glass according to Claim 1, comprising at most 5% by weight MgO based on oxide.
- 4. An aluminoborosilicate glass according to Claim 1, comprising at least 60% by weight SiO_2 based on oxide.
- 5. An aluminobdrosilicate glass according to Claim 1, comprising more than 11% by weight MgO, CaO, SrO and BaO together based on oxide.

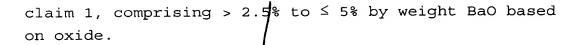
6. An aluminoborosilicate glass according to Claim 1, further comprising by weight % based on oxide,

ZrO ₂	0 - 2,
TiO ₂	0 - 2,
With ZrO ₂ + TiO ₂	0 - 2,
As ₂ O ₃	0 - 1.5,
Sb ₂ O ₃	0 - 1.5,
SnO ₂	0 - 1.5,
CeO ₂	0 - 1.5,
Cl-	0 - 1.5,
F-	0 - 1.5,
SO ₄ ²⁻	0 - 1.5, and
Wherein $As_2O_3 + Sb_2O_3 + SnO_2 +$	
$CeO_2 + Cl^- + F^- + SO_4^{2-}$	0 - 1.5.

- 7. An aluminoborosilicate glass according to Claim 1, which is free or essentially free of arsenic oxide and antimony oxide.
- 8. An aluminoborosilicate glass according to claim 1, having a ratio of MgO/CaO by weight of less than 1.
- 9. An aluminoborosilicate glass according to claim 1, having a ratio of MgO/CaO by weight of less than 0.7.

10. An aluminoborosilicate glass according to olaim 1, comprising at least 5% by weight CaO based on oxide.

- 11. An aluminoborosi icate glass according to claim 1, comprising > 7 to 11% by weight B_2O_3 based on oxide.
 - 12. An aluminoborosilicat glass according to



- 13. An aluminoborosilicate glass according to claim 1, comprising more than 3% by weight SrO and BaO together based on oxide.
- 14. An aluminob rosilicate glass according to claim 1, comprising up to 0.5% by weight ZnO based on oxide.
- 15. An alumino porosilicate glass according to claim 1, comprising up to 1.5% by weight ZnO based on oxide.
- 16. An aluminoborosilicate glass according to claim 1, further comprising idependently of one another at most $0.5\%~ZrO_2$ and TiO_2 each by weight based on oxide.
- 17. An aluminoborosilicate glass according to Claim 2, comprising at most 5% by weight MgO based on oxide.
- 18. An aluminoborosilicate glass according to Claim 2, comprising at least 60% by weight SiO₂ based on oxide.
- 19. An aluminoborosilicate glass according to Claim 2, comprising more than 11% by weight based on oxide MgO, CaO, SrC and BaO is greater together.
- 20. An aluminoborosilicate glass according to Claim 2, further comprising by weight % based on oxide,

 ZrO_2

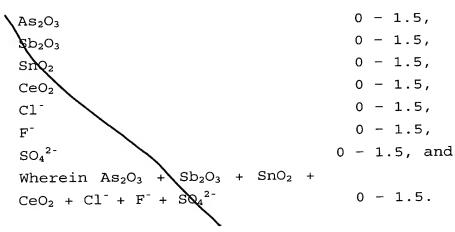
0 - 2,

 TiO_2

0 - 2,

with $ZrO_2 + T_1^{\dagger}O_2$

0 - 2,



- 21. An aluminoborosilicate glass according to Claim 2, which is free or essentially free of arsenic oxide and antimony oxide.
- 22. An aluminoborosilicate glass according to claim 2, having a ratio of MgO/CaO by weight of less than 1.
- 23. An aluminoborosilicate glass according to claim 2, having a ratio of MgO/CaO by weight of less than 0.7.

24. An aluminoborosilicate glass according to claim 2, comprising at least 5% by weight CaO based on exide.

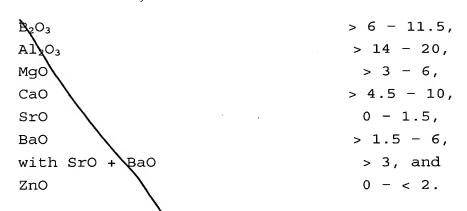
- 25. An aluminoborosilicate glass according to claim 2, comprising > 7 to \leq 1% by weight B_2O_3 based on oxide.
- 26. An aluminoborosil cate glass according to claim 2, comprising > 2.5% to \leq 5% by weight BaO based on oxide.
- 27. An aluminoboro ilicate glass according to claim 2, comprising more than 3% by weight SrO and BaO together based on oxide.

- 28. An aluminoborosilicate glass according to claim 2, comprising up to 0.5% by weight ZnO based on oxide.
- 29. An aluminoboros licate glass according to claim 2, comprising up to 1.5% by weight ZnO based on oxide.
- 30. An aluminoborosilicate glass according to claim 2, further comprising idependently of one another at most $0.5\%~\rm ZrO_2$ and TiO_2 each by weight based on oxide.
- 31. An aluminosilicate glass according to claim 2, comprising up to 3% by weight SrO based on oxide.
- 32. A substrate glass in thin-film photovoltaics or a display comprising an alkali-free aluminoborosilicate glass according to claim 1.
- 33. A TFT display or a thin-film solar cell comprising an alkali-free aluminoborosilicate glass according to claim 1.
- 34. A substrate glass in thin-film photovoltaics or a display comprising an alkali-free aluminoborosilicate glass according to claim 2.
- 35. A TFT display or a thin-film solar cell comprising an alkali-free aluminoborosilicate glass according to claim 2.

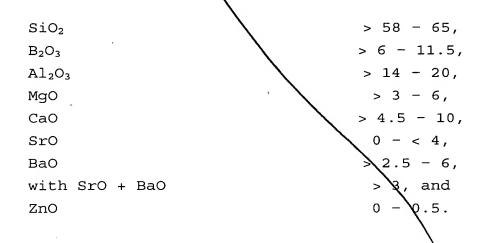
36. An alkali-free aluminoborosilicate glass comprising less than 1500 ppm alkali metal oxides and comprising by weight % based on oxide,

SiO₂

> 58 - 65,



37. An alkali-free aluminoborosilicate glass comprising less than 1500 ppm alkali metal oxides and comprising by weight % based on oxide,



add